

ASSIGNEDSerial No. **55193**

**APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER
OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE
STATE OF NEVADA HERETOFORE APPROPRIATED**

Date of filing in State Engineer's Office **AUG 16 1990**

Returned to applicant for correction

Corrected application filed _____ Map filed **OCT 17 1990** under **55191**The applicant **Yankee/Caithness Joint Venture, L.P.****P.O. Box 18160**

Street and No. or P.O. Box No.

of

Reno

City or Town

Nevada 89511

State and Zip Code No.

hereby make application for permission to change the

Place of Use

Point of diversion, manner of use, and/or place of use

of water heretofore appropriated under **Permit No. 42448**

Identify existing right by Permit, Certificate, Proof or Claim Nos. If Decreed, give title of Decree and

identify right in Decree.

- The source of water is **underground**
Name of stream, lake, underground spring or other source.
- The amount of water to be changed **10.0 cfs**
Second feet, acre feet. One second foot equals 448.83 gallons per minute.
- The water to be used for **industrial and domestic**
Irrigation, power, mining, industrial, etc. If for stock state number and kind of animals.
- The water heretofore permitted for **industrial and domestic**
Irrigation, power, mining, industrial, etc. If for stock state number and kind of animals.
- The water is to be diverted at the following point **NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 5, T.17N., R.20E., M.D.B.&M.,**
Describe as being within a 40-acre subdivision of public survey and by course and
or at a point from which the NW corner of Section 32, T.18N., R.20E., M.D.B.&M.
distance to a section corner. If on unsurveyed land, it should be stated.
bears N 18° 04' 09" W a distance of 6263.65 feet. Well No. 32-5 or No. 32A-5.
- The existing permitted point of diversion is located within **N/A**
If point of diversion is not changed, do not answer.
- Proposed place of use **N $\frac{1}{2}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$ and N $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 5, T.17N.,**
Describe by legal subdivisions. If for irrigation state number of acres to be irrigated.
R.20E., M.D.B.&M. and Section 32, T.18N., R.20E., M.D.B.&M.
- Existing place of use **Section 32, T.18N., R.20E., M.D.B.&M.**
Describe by legal subdivisions. If permit is for irrigation, state number of acres irrigated. If changing place of use and/or
manner of use of irrigation permit, describe acreage to be removed from irrigation.
- Use will be from **January 1st** to **December 31st** of each year.
Month and Day Month and Day
- Use was permitted from **January 1st** to **December 31st** of each year.
Month and Day Month and Day
- Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and
specifications of your diversion or storage works.) **Geothermal well No. 32-5 already drilled but**
well is currently shut-in. Well may be reworked
and/or redrilled and piping to existing power plant must be installed.
ditches, pipes and flumes, or drilled well, etc.
- Estimated cost of works **Up to \$1,000,000.00**
- Existing well No. 32-5 is completed to a total depth of approximately 2,944 feet;
Estimated time required to construct works **casing is cemented to 2,046 feet. Rework and/or**
redrill of this well may take up to five (5) years to complete.

14. Estimated time required to complete the application of water to beneficial use. Up to approximately five (5) years

15. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

The purpose of this application is to change the previously permitted place of use.

If rework/redrill of existing geothermal well No. 32-5 is successful, steam and geothermal fluid produced from this well may be utilized by an existing power plant and/or other electrical generation units located in Section 5, T.17N., R.20E., M.D.B.&M. and/or electrical generation units to be built in Section 32, T.18N., R.20E., M.D.B.&M.

By s/T. S. Deforg
for Yankee/Caithness Joint Venture, L.P.
P.O. Box 18160
Reno, Nevada 89511

Compared bc/ mv am/se

Protested _____

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions: This permit to change the place of use of the geothermal fluid as heretofore granted under Permit 42448 is issued subject to the terms and conditions imposed in said Permit 42448 and with the understanding that no other rights on the source will be affected by the change proposed herein.

This permit is issued subject to existing rights. It is understood that the amount of geothermal fluid herein granted is only a temporary allowance and that the final right obtained under this permit will be dependent upon the amount actually placed to beneficial use. It is also understood that this right must allow for a reasonable decrease of fluid pressure and heat. The well shall be equipped and maintained to prevent any waste of the geothermal fluid. Accurate measurements must be kept of discharge of the production well and the amount of fluid injected into the injection well to determine the total amount of fluid diverted and consumed for a beneficial use.

The production and injection well are to be cemented from the producing levels to the surface to protect fresh water zones. This permit is issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes and fresh, cold water aquifers are not to be diverted. The used geothermal fluids are to be returned to the source via the injection well. The
(CONTINUED ON PAGE 2)

The amount of water to be changed shall be limited to the amount which can be applied to beneficial use, and not to exceed 10.0 cubic feet per second.

Work must be prosecuted with reasonable diligence and be completed on or before July 27, 1991

Proof of completion of work shall be filed before August 27, 1991

Application of water to beneficial use shall be made on or before July 27, 1992

Proof of the application of water to beneficial use shall be filed on or before August 27, 1992

Map in support of proof of beneficial use shall be filed on or before N/A

Completion of work filed _____

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P.E.
State Engineer of Nevada, have hereunto set my hand and the seal of my

Proof of beneficial use filed _____

office, this 20th day of March,

Cultural map filed _____

A.D. 19 91

Certificate No. _____ Issued _____

R. Michael Turnipseed P.E.
State Engineer

(PERMIT TERMS CONTINUED)

issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies. A detailed log on the injection well and/or other analyses of the system used for returning the used geothermal fluids to the source must be submitted together with the Proof of Completion.

An annual report for this well must be filed under this permit describing the amount of geothermal fluid diverted and consumed to a beneficial use for the calendar year. This report must detail the amount of fluid produced and injected.

The total withdrawal of the geothermal fluid shall be limited to 7240 acre-feet per year. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto. This permit is further issued subject to the provisions of NRS 533.372(1) and with the understanding that the power or energy generated by the beneficial use of this water or steam is subject to recapture and use within the boundaries of the State of Nevada when the need arises.

The total combined consumptive use under Permits 50914, 53848, 55191, 55192, 55193, 55194, 55195, 55196, 55197, 55198 and 55199 shall not exceed the total combined diversion rate or 7963.67 acre-feet annually.

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